

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: July 21, 2001, 10:01:49 ; Search time 2052.79 Seconds
(without alignments)
12935.110 Million cell updates/sec

Title: US-09-587-111-4
Perfect score: 2809
Sequence: 1 ggctagcctgctctgacagg.....aaaaaaaaaaaaaaaaa 2809

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 10228115 seqs, 4726426750 residues
Total number of hits satisfying chosen parameters: 20456230

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

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255: qb_est186:*
256: qb_est187:*
257: qb_est188:*
258: qb_est189:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB | ID | Description |
|------------|--------|-------------|--------|-----|----------|--------------------|
| 1 | 1505.8 | 53.6 | 2270 | 192 | AK008689 | AK008689 Mus muscu |
| 2 | 755.8 | 26.9 | 793 | 108 | AK014855 | AK014855 Mus muscu |
| 3 | 651.4 | 23.2 | 953 | 175 | BC254423 | BC254423 602369021 |
| 4 | 647.8 | 23.1 | 168 | 168 | BF689928 | BF689928 602186482 |
| 5 | 629.8 | 22.4 | 666 | 123 | AM976725 | AM976725 EST388834 |
| 6 | 618.4 | 22.0 | 811 | 108 | AK136431 | AK136431 Mus muscu |
| 7 | 610.2 | 21.7 | 616 | 102 | AK180189 | AK180189 T228h02.x |
| 8 | 596.2 | 20.9 | 582 | 168 | BF732920 | BF732920 naef17b01 |
| 9 | 588 | 20.2 | 588 | 171 | BF940288 | BF940288 7043f06.x |
| 10 | 554 | 19.7 | 984 | 168 | BF690154 | BF690154 602186482 |
| 11 | 536.6 | 19.0 | 543 | 148 | BF433303 | BF433303 7960f01.x |
| 12 | 532.4 | 19.0 | 550 | 145 | BF195711 | BF195711 7n87e08.x |
| 13 | 522.8 | 18.6 | 527 | 117 | AM517339 | AM517339 xp33e02.x |
| 14 | 522.2 | 18.6 | 536 | 138 | BF670695 | BF670695 7e38h05.x |
| 15 | 513 | 18.3 | 513 | 148 | BF436096 | BF436096 nab77a02 |
| 16 | 510.8 | 18.2 | 514 | 113 | AM205776 | AM205776 UI-H-B11- |
| 17 | 509.8 | 18.1 | 516 | 165 | BE247412 | BE247412 TCBAPIE63 |
| 18 | 508.8 | 18.1 | 512 | 116 | AM467012 | AM467012 na07e10.x |
| 19 | 505.6 | 18.0 | 513 | 143 | BF058747 | BF058747 7K34c09.x |
| 20 | 503.4 | 17.9 | 987 | 168 | BF689977 | BF689977 602186351 |
| 21 | 480 | 17.1 | 480 | 16 | AI126236 | AI126236 qc55a11.x |
| 22 | 475.2 | 16.9 | 481 | 14 | AA994465 | AA994465 ou38h02.s |
| 23 | 474.2 | 16.9 | 496 | 159 | N29128 | N29128 yx47e06.r1 |
| 24 | 463.6 | 16.5 | 470 | 165 | BE243897 | BE243897 TCBAPIE15 |
| 25 | 459.8 | 16.4 | 463 | 114 | AM303365 | AM303365 xv18c01.x |
| 26 | 458.4 | 16.3 | 450 | 18 | AI305201 | AI305201 q190c09.x |
| 27 | 454.2 | 16.2 | 486 | 151 | BF594605 | BF594605 7053e04.x |
| 28 | 454 | 16.2 | 454 | 11 | AA741232 | AA741232 ny96a11.s |
| 29 | 453.8 | 16.2 | 459 | 19 | AI373010 | AI373010 q202f09.x |
| 30 | 452.6 | 16.1 | 459 | 22 | AI633879 | AI633879 t104f03.x |
| 31 | 451.8 | 16.1 | 455 | 136 | BE366577 | BE366577 h22f104.x |
| 32 | 450.8 | 16.0 | 462 | 168 | BF724464 | BF724464 bx05b12.y |
| 33 | 450.2 | 16.0 | 811 | 168 | BF690051 | BF690051 602186351 |
| 34 | 447.2 | 15.9 | 544 | 103 | AI870136 | AI870136 wK98c05.x |
| 35 | 447 | 15.9 | 461 | 190 | W44731 | W44731 zb98d02.s1 |
| 36 | 445.2 | 15.8 | 475 | 104 | AI951557 | AI951557 wv36f05.x |
| 37 | 444 | 15.8 | 455 | 18 | AI268256 | AI268256 qm03c06.x |
| 38 | 435.8 | 15.5 | 439 | 24 | AI738529 | AI738529 w33b04.x |
| 39 | 431.8 | 15.4 | 435 | 19 | AI379201 | AI379201 t001f09.x |
| 40 | 429 | 15.3 | 478 | 159 | N28029 | N28029 yx50h11.r1 |
| 41 | 426.4 | 15.2 | 428 | 24 | AI761741 | AI761741 w967g05.x |
| 42 | 426.4 | 15.2 | 428 | 24 | AI766228 | AI766228 w168c11.x |
| 43 | 418.2 | 14.9 | 424 | 4 | AA281348 | AA281348 zs94q12.r |
| 44 | 418 | 14.9 | 433 | 159 | N35179 | N35179 yx83e12.r1 |
| 45 | 415.8 | 14.8 | 430 | 11 | AA768829 | AA768829 nz64g08.s |

ALIGNMENTS

RESULT 1
AK008689 2270 bp mRNA HTC 08-FEB-2001
LOCUS Mus musculus adult male stomach cDNA, RIKEN full-length enriched
DEFINITION library, clone:2210009M20, full insert sequence.

ACCESSION AK008689
VERSION AK008689.1 GI:12843037
KEYWORDS CAP trapper.
SOURCE Mus musculus (strain:C57BL/6J) adult male stomach cDNA to mRNA,
clone:lib:RIKEN full-length enriched mouse cDNA library
clone:2210009M20.

ORGANISM

Mus musculus

REFERENCE 1 (sites)
Mammalia: Eutheria; Rodentia: Sciurognathi; Muridae; Murinae; Mus.
Carnivora, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning

JOURNAL

Methods Enzymol. 303, 19-44 (1999)

2 (sites)

REFERENCE

Carnivora, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,
Itoh, M., Kono, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.

AUTHORS

Normalization and subtraction of cap-trapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new genes

TITLE

Genome Res. 10 (10), 1617-1630 (2000)

JOURNAL

3 (sites)

MEDLINE

20499374

REFERENCE

Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carnivora, P.,
Kono, H., Akiyama, J., Nishi, K., Kusunagi, T., Tashiro, H., Itoh, M.,
Kikuchi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishino, T.,
Harada, A., Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T.,
Kashiwagi, K., Fujiwara, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E.,
Watanabe, M., Yoneda, Y., Ishikawa, T., Oga, K., Tanaka, T.,
Matsunaga, S., Okazaki, Y., Muramatsu, M., Inoue, Y. and Hayashizaki, Y.

AUTHORS

RIKEN integrated sequence analysis (RISA) system-384-format
sequencing pipeline with 384 multiplexed capillary sequencer

TITLE

Genome Res. 10 (11), 1757-1771 (2000)

JOURNAL

20530913

MEDLINE

4 (sites)

REFERENCE

The RIKEN Genome Exploration Research Group Phase II Team and
FANTOM Consortium.
Functional annotation of a full-length mouse cDNA collection
Nature 409, 685-690 (2001)

AUTHORS

Adachi, J., Aizawa, K., Akahira, S., Akimura, T., Aono, H., Arai, A.,
Arakawa, T., Carnivora, P., Fukuda, S., Fukunishi, Y., Furuno, M.,
Hasegawa, T., Hara, A., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hori, F.,
Imoto, K., Ishii, Y., Itoh, M., Izawa, M., Kato, H., Kawai, J.,
Kojima, Y., Kono, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T.,
Miyazaki, A., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Okazaki, Y.,
Okido, T., Owa, C., Saito, H., Saito, R., Sakai, C., Sakai, K., Sano, H.,
Sasaki, D., Shibata, K., Shibata, Y., Shigaoka, A., Shikata, T.,
Sogabe, Y., Suzuki, H., Tagami, M., Tagawa, A., Takahashi, F.,
Tanaka, T., Tejima, Y., Toya, T., Yamamura, T., Yasunishi, A.,
Yoshida, K., Yoshino, M., Muramatsu, M. and Hayashizaki, Y.

TITLE

Submitted (10-JUL-2000) Yoshihide Hayashizaki, The Institute of
Physical and Chemical Research (RIKEN), Laboratory for Genome
Exploration Research Group, RIKEN Genomic Sciences Center (GSC),
Kanagawa 230-0045, Japan (E-mail: genome-res@gsc.riken.go.jp,
URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-503-9222,
Fax: 81-45-503-9216)

COMMENT

Please visit our web site (<http://genome.gsc.riken.go.jp/>) for
further details.

JOURNAL

cDNA library was prepared and sequenced in Mouse Genome
Encyclopedia Project of Genome Exploration Research Group in Riken
Genomic Sciences Center and Genome Science Laboratory in RIKEN.
Division of Experimental Animal Research in Riken contributed to
prepare mouse tissues. First strand cDNA was primed with a primer
[5' GAGAGAGAGAGATTCAGAGCTCTTTTCTTTTCTTNN 3']. cDNA was
prepared by using trehalose thermo-activated reverse transcriptase
and subsequently enriched for full-length by cap-trapper. cDNA went
through one round of normalization to Rot = 5.0 and subtraction to
Rot = 20.0. Second strand cDNA was prepared with the primer adapter
of sequence [5'
GAGAGAGAGATTCAGAGTAAATTAATTAATTCACCCCCCCCCC 3']. cDNA was cleaved
with XhoI and SstI. Cloning sites, 5' end: XhoI; 3' end: SstI.
Host: SOLR.

FEATURES

1. location/Qualifiers
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/db_xref="MGI:1341836"
/db_xref="MGI:1905060"
/clone="2210009M20"
/sex="male"
/tissue_type="stomach"
/clone_lib="RIKEN full-length enriched mouse cDNA library"
/dev_stage="adult"

CDs
->1. 2168
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/codon_start=3
/protein_id="BAB25835.1"
/db_xref="GI:12843038"
/translation="GVFQGEDRNFSPOIKVNLNHRKGLGPSODPNRFDRLFSV
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KHQGCYFEGELPLSLAACKTQMDVYVTLLENNHOPASILEATSGNVTLHAIAD
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LEPLINKLOEKDRILIPREFPACTLYMTITFTVAIHQPSLEDPALPESKATGDS
MLLGLHILLLGGLYLLGLQMYEWRRLRLTMISEMDYFELLFLVQALLVLSOVL
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BASE COUNT 497 a 630 c 612 g 531 t
ORIGIN

Query Match 53.6%; Score 1505.8; DB 192; Length 2270;
Best Local Similarity 81.1%; Pred. No. 0;
Matches 1822; Conservative 0; Mismatches 397; Indels 28; Gaps 5;
QY 487 ttccagagcgagaccggaatctgcacctcaagataagatcaactcaactcgaag 546
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 12 TTCACAGGAGAGACGGAACTTCTCCCTCAAGATTAAAGTGAATCTCAACCGCAAG 71
QY 547 ggaacagctgcagtcagtcagccgaatccaaacgaatttcagcagatcgcctc 606
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 72 GGACTGGGTCCAGCCAAAGAGACCAAAATCGGTTGACCGTGACGACTCTCACTG 131
QY 607 gtctcccgaggtgtcccgagatctgcgtgcagctccagatcagatcgaagcagc 666
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 132 GTCTCCCGGGGTCTCCCGAGAGCTGACTGACTGCTAAGAGTACTGCGCGGACAG 191
QY 667 aagtaactcagcagctcgaatacacagagagctcacagtaagacgtgcctgaag 726
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DB 192 AAGTACTCACTGACTCGGATACACAGAGCTCCACTGGAAGAGAGCGCTGATGAAG 251
QY 727 gctgtcgtcaaccttaagaagcagatcgaatgcctcattctgcactgcctcag 786
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DB 252 GCTGTCTTAACCTTACAGATGGGGTCAATGCTGTATCCTGCGCTGCTGCAATG 311
QY 787 aaggaactcgcagcctcagccctgcgtgtaaatgtccagctgcagatgaactac 846
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DB 312 AGGGAATCCGGCAATCTCAAGCCCTTGTCAATGCCCAGTGCATGACTTCTACCG 371
QY 847 ggcacagcgtctgcacatcgccatltgagaagagagctgcagtgctgaagctc 906
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DB 372 GGCACAGTGGCGCTGCATCGCATAGAGAGAGAGCGCTGTGGTGAAGTGTGTC 431
QY 907 gtggagaatggggcaatgtgcatgtccggcgctgcgcgcttctccagaagggc 966
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DB 432 GTAGAAATGAGCGAATGTTCACATCGAGCGCTGTGGCGCTTCTTCAAAAAGCA 491
QY 967 ggaactgtcttattcgtgtgagctaccctctcttgccgctgcgcgaagagtg 1026
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DB 492 GGAACCTGTTTCATTTTGGAGAGCTACTTCTTCTGCGACGCTGACCAAGCA 551
QY 1027 gattgtgtaagtaactctcgtggaacacacacagcccgccagcctgcagcctc 1086
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 552 GATGTGTGACTACTCTCTGGAGAACCAACACAGCTGCGCAGCCTTGAGGCGCA 611
QY 1087 tcccaaggcaacacagctcctgtcatgtatgtatctcggaacactcaagctgaag 1146
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 612 TCCCTGGGGAACAACATCTCTGATGCTTGTGATGATTGACAGCAACCTCACCT 671
QY 1147 attgacgtgtacacagatgtatgtatgtgctcctcagcgtgcggcgctcct 1206
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 672 AGTGGCTGTGATCAATGTATGACAGCTTCTCAAAATGGGGCGCGCTTCTGCCC 731

QY 1207 accgtcagcttgaagacatccgcaacctgcagatctcagcctctgaagctgcgc 1266
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DB 732 ACGTGACACTTGAGATATCTGCAACCAACATCAAGGCTCACAACCTGAAAGTTG 791
QY 1267 aaggagggcaagatcgaatlttcaagcaatcctgcagcggaggtlttcaagactg 1326
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 792 AAGGAAGTAAATTAATGATCTTCAAGCAACATCTCCACCGGAGTTCACAGGCT 851
QY 1327 ca---ccttccgaagatcaccgagtggtgtatagggcctgcgcgggtgtcgtg 1383
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 852 CAGCCCTTCCCGAAGTTCACCGAGTGCTCTACGGTCTGTCCGAGTGTACTGTAC 911
QY 1384 gacctgtctctgtgagacagctgtgaggaactcagtgctgtgagatcaltgcctt 1443
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 912 GACCTCTCTGTGTGACAGTTGGGAAAGAACTCGCTCGTGAATTCATTCGCTTCC 971
QY 1444 tgcgaagcccgacacacagcagatgtgcgtlttggagccctcgaacaaactgtc 1503
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DB 972 TGCAGAGCCCGCACCGGACCGCATGCTGTTTGAAGCCACTGAACAAGCTTGTG 1031
QY 1504 ggcgaatgggattgtctacatcccaagttcttcttaactctcgtgtatctgtac 1563
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DB 1032 GAGAAATGGGATCGGCTCATCCCAAGATTCTTCTTAACCTTGCTTACTTGGCTTAC 1091
QY 1564 atgttcatctcaccgctgtgtgctacacatcagcctacccctgaagaagcgcgcct 1623
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DB 1092 ATGATCATCTTACCATCTAGTTGGCTACCAAGCCCTTCCCTGGAGCAGCAGCAT 1151
QY 1624 caactgaagcggaggtgtggaactcagctgcgtgcagcggccaactccttactg 1683
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DB 1152 TCATCAAAAGCACTTTTGGGACTTCATGCTGCTGTTGGGCACTTGTGATCGCT 1211
QY 1684 gggggagatcactcctcgtgagcagctgtgtacttctgcggcgagcagctgtcat 1743
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DB 1212 GGGGATTTTACTCTTACTGAGGACAGCTGTGTTTGGGGGGGGCGCTGTTCAAC 1271
QY 1744 tggatctgtcatatagacagctacttgaatccttctcgtgttccaggccctgtc 1803
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QY 1804 gtgggtcccaagtgctgtgttctcgcgcacatgagtggtactgcgcctgtgtgt 1863
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DB 1392 TCCCTAGTCTGGGCTGCTGTAACCTGCTTTATATACAGTGGCTTACGACACAG 1451
QY 1924 atctacagtgtcatgtatccagaaggtcatcctgcggagcctgcgttctctgat 1983
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DB 1452 ACTTACAGTGTATGATCCAAAAGTCAATTCGCGAGACCTGCTCGCTTCCGTGCT 1511
QY 1984 tacttaagcttcttcttgcgtctgcgttgcgtgcgtgtgagctgaagcgaagctg 2043
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QY 2104 gaggagagggcaagcgggcccagtgaggglatccttgaaagcctccttgagctc 2163
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DB 1632 GAGAGAGAG-----CAGTCCCATATGTGGGGCATCTGTGAGTCCCTAGAGCT 1685
QY 2164 aaattacacatcgtgcatgtggagctgtgcctccagggagcagctgcagctcg 2223
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DB 1686 AAGTTACCATTTGATGTGGTGAAGTGGCTTTCAGAGAACACTGTGCTTGTGGGG 1745
QY 2224 gtgcgtcgtcgtcgtcgtcagctgtgcgtcagctacatcctcgtcgtcagctgc 2283
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DB 1746 GTGCTGCTGTGCTGTGCTTACGCTCTCTACCTACGCTTACTGCTCAACATGCTC 1805

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QY 2284 atcgccctcatgagcagacccgltcaacagtgctgccactgacagctggaacatctggaag 2343
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QY 2344 ctgagaaagccatctgctctgtagagatggaatgagctcttggtgtggaagaaga- 2402
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Db 1866 TTGCAAGAAAGCATTCTCTGTTGGAGATGGAATGTTACTGGTGTGCAAGGAGAA 1925

QY 2403 --gagcgggagagtgatglatgacacgttgacacgaacgaacgagcccgatag 2460
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Db 1986 CGGTGTCCTTCAGGGTGAAGTAACHTGGCTGCATGGAGAAACCTTCCAC 2045

QY 2521 ctgtgtgagagcccgtagagggcaggtgtccctcgaaactccggaacccgtctgct 2580
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QY 2697 tcttccaacacatctgctgtctg 2723
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RESULT 2
AUI1855 793 bp mRNA EST 25-OCT-2000
LOCUS AUI1855 THYR01 Homo sapiens cDNA clone THYR01001346 5', mRNA
DEFINITION AUI1855 THYR01 Homo sapiens cDNA clone THYR01001346 5', mRNA
ACCESSION AUI1855
VERSION AUI1855.1 GI:11003376
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
            Chordata; Chordata; Craniata; Vertebrata; Euteleostomi;
            Eukaryota; Metazoa; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 793)
AUTHORS Ota,T., Nishikawa,T., Suzuki,Y., Ishii,S., Saito,K., Kawai,Y.,
        Yamamoto,J., Wakamatsu,A., Nakamura,Y., Nagai,T., Sugano,S. and
        Isogai,T.
TITLE HRI human cDNA project
JOURNAL Unpublished (2000)
COMMENT Contact: Takao Isogai
        Genomics Laboratory
        Helix Research Institute
        1532-3 Yana, Kisarazu, Chiba 292-0812, Japan
        Tel: 81-438-52-3951
        Fax: 81-438-52-3952
        Email: genomics@hri.co.jp
HRI human cDNA project; 5'- & 3'-end one pass sequencing: Helix
Research Institute; cDNA library construction: Department of
Virology, Institute of Medical Science, University of Tokyo, and
Helix Research Institute.
Location/Qualifiers
1..793
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/tissue_type="thyroid gland"
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BASE COUNT 184 a 229 c 230 g 147 t 3 others
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Best Local Similarity 98.5%; Pred. No. 3.5e-161;
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QY 203 gagaagctccggatccagcagccgacgctgctgactagctgtggtgtccagtc 262
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Db 1 GAGAAAGCTCCGGATCCAGAGCCGCCGCCCTCGGCTCGGGGCTCCACATTC 60

QY 263 aggcacaacaccgagcagcagcttgtagaagaagaagacccttgacatccatctgaca 322
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Db 61 AGGCCAACACCGACGCGAGCTGGAGAGAACAGACCTTGACATCTCATCTGCACA 120

QY 323 gaggctcctgctgagcagcagcagccctccctcctcctagagatgacctaccctcagctc 382
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Db 121 GAGTCTCGGTGAGACGACGACGACTCTCTCTCTAGATACCTCACCTCCAGGCTTC 180

QY 383 cagtttcaagltgtagacatagatgtagagccaagaatgctctgtagcggagagag 442
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 181 CAGTTTCAAGTTTGAGACATATGATGAGGCCAAGAAGATGCTCTGAGCGGACAG 240

QY 443 gaaagctgatttggagagcggtgctcccatgagatcaagttccaggaggagagcc 502
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Db 241 GAAAGCTGATTTTGGAGCGGCTGCTCCATGAGATCACAGTTCCAGGGCGAGAGCC 300

QY 503 ggaattcgccctcagaataagatcaaacctcaactaccgaaagggaacaggtgcaatc 562
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Db 301 GGAATTTCGCCCTCAGATTAAGATGACCACTCACTACCGAAGAGAACAGTGCATTC 360

QY 563 agccggatccaaacccgatttgaacagagatcggtcttcaatgctgtcccggtgtcc 622
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Db 361 AGCCGATCCAAACCGATTGATCGAGATCGGCTCTCAATGCGGTCTCCGGGGTTC 420

QY 623 ccgagatctgctggaacttccagatcctgtagaagaacagcaagtaactccagact 682
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Db 421 CCGAGATCTGCTGCTGAGCTTCAGATCTGAGCAAGACAGCAAGTCACTCACCGACT 480

QY 683 cggaaatacagaagggcctcccaagtaagacgtgctgataaggtctgtctgaacctta 742
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Db 481 CGGAATACACAGAGGGCTCCACAGGTAAAGACGTGCTGATGAAGCTTGCTGAACCTTA 540

QY 743 agaacggagatcaatgctctgcatcttccactgctgacagatcgacagggacttgcaatc 802
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Db 541 AGAAGCGAGTCAATGCTGCAATTTGCCACTGTCAGATCGACAGGAGACTTGCAATTC 600

QY 803 ctcaagcccttgtaaatgctccagtgacagatgatataccggagggccacagcgtctgc 862
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Db 601 CTCAGCCCTCGTAAATGCCAGTGCACAGATGATGATACCGAGGCCACAGCGCTTGC 660

QY 863 acatcgccatgagaagaagagctgtagtctgtagaagctcctgtgtgagaatggagcca 922
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Db 661 ACATCGCATTTGAGAAAGAGAGTGTGCAATGTGTCAACTTCTGTGAGAAATGGGGCCA 720

QY 923 atgtgacatgccggcgtgctgagcgtcttctccagaaggccaaggagactgtcttatt 982
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Db 721 ATGTGCATGCCC-GGCTGCGGGCGG-TTNTTTCAGAAAGCAAGGAGACTGCTTTTAAT 778

QY 983 tcggtgagctacc 996
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Db 779 TCGGGAAGCTACCC 792

RESULT 3
BG254423 953 bp mRNA EST 13-FEB-2001
LOCUS BG254423 602369021F1 NIH_MGC_91 Homo sapiens cDNA clone IMAGE:4477157 5',
DEFINITION BG254423 mRNA sequence.
ACCESSION BG254423
VERSION BG254423.1 GI:12764239
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
            Chordata; Chordata; Craniata; Vertebrata; Euteleostomi;
            Eukaryota; Metazoa;
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REFERENCE
Mammalia: Eutheria: Primates, Catarrhini, Homnidae: Homo.
1 (bases 1 to 953)
AUTHORS
NIH-MGC <http://mgc.nci.nih.gov/>.
TITLE
National Institutes of Health, Mammalian Gene Collection (MGC).
JOURNAL
Unpublished (1999)
COMMENT
Contact: Robert Strausberg, Ph.D.

| BASE COUNT ORIGIN | 201 a | 284 c | 269 g | 199 t |
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| Accession | Sequence | Position |
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| Oy 1391 | ctctgtggagcaagctgtggaggaagaactcagctgtgagatcttgccttaattgcaaga | 1450 |
| Db 541 | ctttctgtggagccctgtggaggaagaactcagctgtgagatcttgccttaattgcaaga | 600 |
| Oy 1451 | gcccgcacgcagacacccaatgctgttttggagcccccgtgacacaactgtctgcagcgaat | 1510 |
| Db 601 | gcccgcaacgcagacacccaatgctgttttggagcccccgtgacacaactgtctgcagcgaat | 659 |
| Oy 1511 | ggagatcgcgtcaatcccagaattcttcttaactctctgtgtatctgatactaaatgttca | 1570 |
| Db 660 | tggagatcgcgtcaatcccagaattcttcttaactctctgtgtatctgatactaaatgttca | 716 |
| Oy 1571 | tcttaccagcttgt 1583 | |
| Db 717 | ctttcaccagcttgt 729 | |

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| RESULT | 4 |
| LOCUS | B6889928 |
| DEFINITION | B6889928 840 bp mRNA EST 22-DEC-2000 60218648.F1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4298445 , mRNA sequence. |
| ACCESSION | B6889928 |
| VERSION | B6889928.1 GI:11975336 |
| KEYWORDS | EST. |
| SOURCE | human. |
| ORGANISM | Homo sapiens |

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| BASE COUNT | 174 | a | 256 | c | 258 | g | 152 | t |
| ORIGIN | | | | | | | | |
| Query Match | 23.1% | Score 647.8; | | DB:168; | | Length 840; | | |
| Best Local Similarity | 96.4% | Pred. No. 1.2e-136; | | | | | | |
| Matches 716: | Conservative | 0: | Mismatches | 22: | Indels | 5: | Gaps | 5: |
| OY | 21 | ggagagtttaagctcccgcttcacacgctgccgcgtgccaagttggtgctgaaggtgtaaccga | 80 | | | | | |
| ob | 1 | GGAGAGTTTAACCTCCCGCTTCACACCGGCGCGCGCCAGAGTGGCGGAGAGGCTGACCGA | 60 | | | | | |

QY 81 gagaccagaacctgtctgtgagcttagtgcctcagagctgggagaggttccgcgc 140
 Db 61 GAGACCAGAACCTGCTTCTGAGCTTAGTGTCTCAGAGCTGGGAGGAGTCCGCCGC 120
 QY 141 tccctgtgtgtcagcgccgagccctcccggtctcacttctccgcagccctgcta 200
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 Db 181 CTGAGAACCTCCGGGATCCAGACGCCGCCACGCCCTGCTCAGCTGCGGGCTCCAG 240
 QY 261 tcagagccacacccagcgcagctgtggagagagagacaccttgcacatctccatctga 320
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 QY 321 cagaggtctgtgtgagccagcagcctcctcctctagtatgacctcaccctcagctc 380
 Db 301 CAGAGTCTGTGCTGAGCGGAGCGACCCCTCTCTCTAGAGTACCTCACCCTCAGCTC 360
 QY 381 tccagtttcaggtgtgagacattagatgtgagggccaagaagatgtgctctgagcgagag 440
 Db 361 TCAGATTTCAGGTTGGAGACATTAGATGAGAGGCCAAGAGTGTGCTTGAAGCGGACAG 420
 QY 441 aggaagctgtgatttggagcggtgtgctccctccatggagtgacagttccagggcgagga 500
 Db 421 AGGAAGCTTGA-TTGGAGCGGGGCTGCTCCATGAGTACAGTTCGA-CGCGAGGA 478
 QY 501 ccggaattgcacctcagataagagtgtaaccttaacctacagaaaggagaaagtgccag 560
 Db 479 CCGGAATTGCCCTCCAGATAGAGTCAA-CTCAACTACGAAAGGAGAACGAGGCGCAG 537
 QY 561 tcagccagatcc-aaacgatttgacagagatcgctctcctcctcaatcggtctccgggggtg 619
 Db 538 TCAGCGGATTCACAAACCGATTGTGACCGAGATCGGCTTTCATCGGTCTCCCGGGGTG 597
 QY 620 tcccgagagatctgtgtgagcttccagagatcctgtgagcaagcagcaagtaacctcagcg 679
 Db 598 TCCCGAGAGTCTGGCTGAGATTCAGAGTACTGAGCGAGACGCAAGTACTCA-CG 656
 QY 680 actggaatatacagagaggtcccaagtgtaagctgtccttgatgaagctgtgtcgaacc 739
 Db 657 ACTGGAAATACACAGAGGCGCCACAGGTAGAGCTGCTGTGATGAAGCTGTGTGACT 716
 QY 740 ttaagcagagtcacatgcctgc 762
 Db 717 TAAGSAGAGGTATGCTCTGCTTC 739

RESULT 5
 AM976725/c 686 bp mRNA EST 02-JUN-2000
 LOCUS EST388834 MAGE resequences, MAGE Homo sapiens cDNA, mRNA sequence.
 DEFINITION AM976725
 ACCESSION AM976725
 VERSION AM976725.1 GI:8167958
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 686)
 Hegde,P., Qi,R., Ahermathy,K., Dharap,S., Gaspard,R., Gay,C., Holt
 I.E., Saeed,A.I., Sharov,V., Lee,N.H., Yeatman,T.J. and
 Quackenbush,J.
 Assessment of gene expression patterns in a model of colon tumor
 metastasis using a 19,200 element cDNA microarray
 Unpublished (2000)
 CONTACT: John Quackenbush
 The Institute for Genomic Research
 9712 Medical Center Dr., Rockville, MD 20850, USA
 Tel: 301 838 3528
 Fax: 301 838 0208
 Email: johnq@tigr.org

Plate: 364
 Seq primer: Forward.
 Location/Qualifiers
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 BASE COUNT 124 a 195 c 199 g 168 t
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 Best Local Similarity 96.6%; Pred. No. 1.5e-132;
 Matches 654; Conservative 0; Mismatches 22; Indels 1; Gaps 1;

QY 272 ccgacgcagctgtggagaaagacagacccttgacatctccatctcagagtttca 331
 Db 682 CCACGCCAAGCTGGAGAGGAGAAACAGGACCTT-AAATCTCCATCGGCAAGGCTCTG 624
 QY 332 gctgagccgagagctctcctcctctctagatgagatcaacctcagagctcagtttca 391
 Db 633 GCTGACCGAACCACTCTCCTCTCTAGATGACCTCACCTCCAGCTCTCCAGTTTCCA 564
 QY 392 gcttgagacattagatgagggccaagaagatgtgctctgagcgagacagagaaagctcg 451
 Db 563 GGTGAGACATTAGATGAGAGGCCAAGAAAGATGCTGTGAGCGGAGACAGAGAAAGCTGG 504
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 Db 503 ATTTTGGAGCGGGGTGCTCCATGAGATGTCACATTCAGGCGAGGACCGAAATTTCG 444
 QY 512 cccctcagataagatgaacctcaactccgaaaggagagtgccagtgagccgagatc 571
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 QY 572 caaacggaattgacccagagatcggtctcctcaatgtcggtctccgggggtgtccccgagatc 631
 Db 383 CAACCGAATTGACCGAGATGGGCTCTTCATATGGCGTCTCCGGGGGTGCCCGAGATC 324
 QY 632 tggctgagcttccagagtgacttgagcaagacagcaagtaacctcagagctcgaataca 691
 Db 333 TGGCTGGACTTCCACAGATGACGACGACCAAGACCAAGTACTCTCACCACTCGGAATACA 264
 QY 692 cagaggtctccagagtgagctgctgagtgagaggtgtgtgagaccttgaagacggag 751
 Db 263 CAGAGGCTCCACAGATTAAGACGTGCTGATGTAAGAGCTGTGTAACCTTAAAGCGGAG 204
 QY 752 tcaatgctgtcatctgtccactgtctgcagatgcagaggaactgtgcaactcctcagcccc 811
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 Db 143 TGTAAATGCCAGTGCACAGTGTACTATTACCGAGGCGCACGCCCTGTGCACATCGCA 84
 QY 872 ttgaaagagagtgctgagtggtgtgagagctcctgtggaagatggggccaatgtgcatg 931
 Db 83 TTGAAAGAGAGTGTGCAGTGTGTGAAGCTCTGTGGAAGATGGGCGCAATGTGCAATG 24
 QY 932 cccgggctgtgcggcgc 948
 Db 23 CCCGGGCTCGGCGCGC 7

RESULT 6
 AUI36431 841 bp mRNA EST 24-OCT-2000
 LOCUS AUI36431
 DEFINITION AUI36431 PLACE1 Homo sapiens cDNA clone PLACE104258 5', mRNA
 sequence.
 ACCESSION AUI36431
 VERSION AUI36431.1 GI:10996970
 KEYWORDS EST.

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| | SOURCE | human. |
| | ORGANISM | Homo sapiens |
| | REFERENCE. | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; |
| | AUTHORS | Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. |
| | | 1 (bases 1 to 841) |
| | | Ota,T., Nishikawa,T., Suzuki,Y., Ishii,S., Saito,K., Kawai,Y., |
| | | Yamamoto,T., Wakematsu,A., Nakamura,Y., Nagai,T., Sugano,S. and |
| | | Isoqali,T. |
| | TITLE | HRI human cDNA project |
| | JOURNAL | Unpublished (2000) |
| | COMMENT | Contact: Takao Isogai Genomics Laboratory Helix Research Institute 1532-3 Yana, Kisarazu, Chiba 292-0812, Japan Tel.: 81-438-52-3951 Fax: 81-438-52-3952 Email: genomese@hri.co.jp HRI human cDNA project; 5'- & 3'-end one pass sequencing; Helix Research Institute; cDNA library construction; Department of Virology, Institute of Medical Science, University of Tokyo, and Helix Research Institute. |
| | FEATURES | Location/Qualifiers |
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| | ORIGIN | |
| | Query Match | 22.0%; Score 618.4; DB 108; Length 841; |
| | Best Local Similarity | 97.9%; Pred. No. 6e-130; |
| | Matches 644; Conservative 0; Mismatches 12; Indels 2; Gaps | 2; |
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| Dd | 1 CTCGGCTTCTCACCGTCACCGTGCCGCTGCCCCAGGTGGGCTAGAGGTGACCGGAGCAGAAC | 60 |
| Oy | 92 ctgcttgtctggaacttagtctcaagatctggaagaaagtctccgcgcctctctgtctgt | 151 |
| Dd | 61 CTGCTTGTCTGAGACTTAGAGCTCAAGAGCTGGGAGGAGAGTTCCGGCGCTCTGCTGT | 120 |
| Oy | 152 cagcgcgcgcgcgcgcctcccgcgtctcatctctcccgacgccccctgtactagaagctc | 211 |
| Dd | 121 CAGCCGCCGCACCCCCTCCCGGCTTCACTCTCCCGCAGCCCTGTAATAAGAACTC | 180 |
| Oy | 212 cgagatccacagcagcgcgcacgcgcctgtgctcagccttgcggggtccagtcagccaaca | 271 |
| Dd | 181 CGGATGCCAGACGCCGCCACCCTTGCGCTAGCCTGGGGGCTTCAGTCAAGCCACA | 240 |
| Oy | 272 ccgacgcgcagcttgggaagaaagacagacccttgacatctccatctcagacagagttctgy | 331 |
| Dd | 241 CCGAGCGCCAGCTGGGAGGAAGAACAGGGCCCTTGACATCTCCATCTGCACAGAGGCTCG | 300 |
| Oy | 332 gctgagccgagagagctctctctctcttagatgagactaacacctccagctctcagttttca | 391 |
| Dd | 301 GCTGACCGGAGAGGCTCTCTCTCTAGAGATGACCTCAACCTTCAGGCTTCAGATTTC | 360 |
| Oy | 392 gattgagacatatgatggagcacaagaatagtgtctctgagcgcgacagagaaaagctgg | 451 |
| Dd | 361 GGTTGGAGACANTTAAATGAGAGCCCAAAGAAAGATGGCTTGAAGCGGACAGAGAAAAGCTGG | 420 |
| Oy | 452 atttggagagcggcgtgctctccatctgtagtcaagtlcc-aagcgaaagacgcgaatatc | 510 |
| Dd | 421 ATTTTGGAGCGGGCTGCTCCCATGAGGATCAACATTCGAAGGCGNAGAGCCGGAATTC | 480 |
| Oy | 511 gccctcagatgaagatgaactcaactcaacgaagaaggaagacagtgycagtgtaagccgat | 570 |
| Dd | 481 GCCCTCAATTAAGAGTCAACCTCAACTACGCAAGAGGAAACAGTCCAGTCAACCGGAT | 540 |

| | | | |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------|
| Qy | 571 | ccaaacgattgaccggagatcgctcttcaatgc-9gtctcccgaggctgtccccgaaga | 629 |
| Db | 541 | CCAAACCGATTGTGACCAGATATGGCTCTTCATATGGCGGTCTCCCGGGTGTCCCCGANGA | 600 |
| Qy | 630 | tctggtcgtacttcagagtaccttgagacaagacacgaagtaacctaccagctcgaa | 687 |
| Db | 601 | TMTGGCTGACTTCAAGAAGTANCTGAGCAAGCANCAGTAAGTACTCACCGACTCGGA | 658 |
| RESULT | 7 | | |
| LOCUS | AI801897/c | | |
| DEFINITION | AI801897 | 616 bp mRNA EST | 16-DEC-1999 |
| | | tx28n02.xl NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:2270931 3' | |
| | | similar to FR:035433 035433 VANILLOID RECEPTOR SUBTYPE 1., mRNA sequence. | |
| ACCESSION | AI801897 | | |
| VERSION | AI801897.1 | GI:5367369 | |
| KEYWORDS | EST. | | |
| SOURCE | human. | | |
| ORGANISM | Homo sapiens | | |
| | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; | | |
| | Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. | | |
| REFERENCE | 1 (bases 1 to 616) | | |
| AUTHORS | NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap. | | |
| TITLE | National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index | | |
| JOURNAL | Unpublished (1997) | | |
| COMMENT | Contact: Robert Strausberg, Ph.D. Email: cgapbs-remail.nih.gov Tissue Procurement: Christopher Moskalko, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D. | | |
| | cDNA Library Preparation: M. Bento Soares, Ph.D. cDNA Library Arrayed by: Greg Lennon, Ph.D. DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: www-bio.livnl.gov/dbrr/image/image.html Insert length: 663 std error: 0.00 Seq primer: -400P from Glbco High quality sequence stop: 456. | | |
| FEATURES | Location/Qualifiers | | |
| source | 1..616 | /organism="Homo sapiens" | |
| | /db_xref="taxon:9606" | | |
| | /clone="IMAGE:2270931" | | |
| | /clone_lib="NCI-CGAP_Lu24" | | |
| | /tissue_type="carcinoid" | | |
| | /lab_host="DH10B" | | |
| | /note="Organ: lung; Vector: pTT3D-Pac (Pharmacia) with a modified polylinker; Plasmid DNA from the normalized library NCI-CGAP Lu24 was prepared, and ss circles were used as tracer. In a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (clonoids 141920-1417991 and 1520904-1522439). Subtraction by Bento Soares and M. Fatima Bonaldo " | | |
| BASE COUNT | 129 a 189 c 169 g 128 t 1 others | | |
| ORIGIN | | | |
| Query Match | 21.7%; Score 610.2; DB 102; Length 616; | | |
| Best Local Similarity | 99.4%; Pred. No. 4; le-18; | | |
| Matches 612; Conservative | 0; Mismatches 4; Indels 0; Gaps 0; | | |
| Qy | 2152 | ttagagctcttcaaatcacatcgycalbyggcgaagctgacctccagagacgtgcac | 2211 |
| Db | 616 | TTGAGGCTCTTCAAATCACCATCGGCATGGGCGAGCTTGCCCTTCACAGACAGCTGCAC | 557 |
| Qy | 2212 | ttcgcgcacatggygtctgtctgtctgtgtgcctaacygtcgtccactacatactgtg | 2271 |
| Db | 556 | TTCCGCCGCAATGTCCTCTCTGTGTGTGGCCATACGATGNTGCTCACCTACATCTCTGTG | 497 |

MRNA sequence.
BF940288
BF940288.1 GI:12357608
EST.
SOURCE
ORGANISM
human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 588)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Dummer-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL, send email to:
inf@image.llnl.gov
Seq. primer: -400P from Gibco
High quality sequence stop: 492.
Location/Qualifiers
1..588
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:3577090"
/clone_lib="NCI-CGAP_Kid11"
/lab_host="DH10B"
/note="Organ: kidney; Vector: pT7/3D-Pac (Pharmacia) with
a modified polylinker. Site 1: Not I; Site 2: Eco RI;
Plasmid DNA from the normalized library NCI-CGAP_Kid3 was
prepared, and ss circles were made in vitro. Following HAP
purification, this DNA was used as tracer in a subtractive
hybridization reaction. The driver was PCR-amplified cDNAs
from a pool of 5,000 clones made from the same library
(cloneids 132376-132391, 1456007-1456775, and
1500552-1502855). Subtraction by Bento Soares and M.
Fatima Bonaldo."

BASE COUNT 110 a 173 c 163 g 142 t
ORIGIN

Query Match 20.9%; Score 588; DB 171; Length 588;
Best Local Similarity 100.0%; Pred. No. 4.4e-123; Indels 0; Gaps 0;
Matches 588; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

361 atgacctcaacctccagctctcagcttcaagttgagacattagatgagccaaga 420
|||||
588 ATGACCTCAACCCCTCCAGCTCTCCAGTTTCAGTTTGAGAGCATTAGAGGCCAAGA 529
|||||
421 gatgctctgagggcagacagagaaagctggaatttgggagcggtgctccatgag 480
|||||
528 GAGGCTCTGAGGCGGACAGAGAAAGCTGATTTGGGAGCGGCTGCCCTCCATGAG 469
|||||
481 tccagcttcagggcgaggaagaaattcgccctcagatagaatcaaaccaactc 540
|||||
468 TCACACTTCACAGGCGGACCGAAATTCGCCCTCAGATTAAGATCAACCTCAACTAC 409
|||||
541 cgaagaaggacaagtgccagtcagcccgatccaaacgatttaccgagatcgccctc 600
|||||
408 CGAAAGGGAACAGCTGCCAGTCCAGCGGATCCAAACGATTTACCGAGATCGGCTTTC 349
|||||
601 aatgggtctccgggggtgtcccgagagatctggtctggaactccagaglaactgagcaag 660
|||||
348 AATGCGCTCTCCCGGGGTGTCCCGAGAGATCTGGCTGACTTCCAGAGTACCTGAGCAAG 289
|||||
661 accagaatctactcagcagctcagatcagacagagaggtccacagtaagaatgctctcg 720
|||||
288 ACCAGCAAGTACTCTACCGACTCGAATACACAGAGGGCTCCACAGGTAAAGACGTGCTTG 229

721 atgaagctgtgtgtaaccttaagagcagagatcaatgctcgtcattctgccaactgctcacg 780
|||||
228 ATGACAGCTGTGCTGTAACCTTTAAGAGACGAGATCAATGCTGCAATTGTGCACACTGCTGCAG 169
|||||
781 atcgaaggactctggaactcctcagccctgtgtaaatgcccagtgacaagatgactat 840
|||||
168 ATGACAGGAGACTCTGCAATCCTCAGCCCTGTGTAATGCCCAGTGCACAGTACTAT 109
|||||
841 taccagggccacagcgctctgacacatcgccattgaaagaagaggtctgcagtgagag 900
|||||
108 TACCGAGGCGCACGCGCTGTCACATCGCCATTGACAAAGAGAGTGTGAGTGTGAAG 49
|||||
901 ctccctgtgagaatggggccaatgtgcattgcccggcctgcgcgcg 948
|||||
48 CTCTGCTGTGAGAAATGGGGCCAAATGTGCAATGCCGGGCTCGCGCGC 1

RESULT 10
BF690154/c
LOCUS
DEFINITION
602186482r1 NIH_MGC_49 Homo sapiens CDNA clone IMAGE:4298445 3',
MRNA sequence.
BF690154
VERSION
BF690154.1 GI:11975562
KEYWORDS
EST.
SOURCE
human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 984)
NIH-MGC <http://mgc.ncbi.nlm.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC/DC/DTP
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: L1CM1154 row: c column: 22
High quality sequence start: 20
High quality sequence stop: 715.
Location/Qualifiers
1..984
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/db_xref="taxon:9606"
/clone="IMAGE:4298445"
/clone_lib="NIH_MGC_49"
/tissue_type="melanotic melanoma, high MDR (cell line)"
/lab_host="DH10B (phage-resistant)"
/note="Organ: skin; Vector: pORF7; Site 1: XhoI; Site 2:
EcoRI; CDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GCCACGAG(G). Size-selected >500bp for average insert size
1.8kb. Library constructed by Ling Hong in the laboratory
of Gerald M. Rubin (University of California, Berkeley)
using ZAP-CDNA synthesis kit (Stratagene) and Superscript
II RT (Life Technologies). Note: this is a NIH_MGC
library."

BASE COUNT 200 a 297 c 284 g 203 t
ORIGIN

Query Match 19.7%; Score 554; DB 168; Length 984;
Best Local Similarity 86.6%; Pred. No. 2.7e-115;
Matches 752; Conservative 0; Mismatches 95; Indels 21; Gaps 12;

1870 gtgctggtctgtgtaaccttactatacagtggtcttcagacacagcagcatctac 1929
|||||

[illegible]

| | |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AUTHORS | NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap . |
| TITLE | National Cancer Institute, Cancer Genome Anatomy Project (CGAP). |
| JOURNAL | Tumor Gene Index |
| COMMENT | Unpublished (1997) Contact: Robert Strausberg, Ph.D. Email: cga9bs-r@mail.nih.gov Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D. |
| | CDNA Library Preparation: M. Bento Soares, Ph.D. CDNA Library Arrayed by: Greg Lennon, Ph.D. DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LNLN, send email to: linfo@image.lnl.gov Seq primer: -400P from Gibco High quality sequence stop: 309. |
| FEATURES | Location/Qualifiers |
| source | 1..543 /organism="Homo sapiens" /db_xref="taxon:9606" /clone IMAGE:3702691" /clone.lib="NCI-CGAP_Lu24" /tissue_type="carcinoid" /lab_host="DH10B" /note="Organ: lung; Vector: pRT73D-Pac (pharmacia) with a modified polylinker: Plasmid DNA from the normalized library NCI_CGAP_Lu5 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (clonoids 1418920-1417991 and 1520904-1522439). Subtraction by Bento Soares and M. Fatima Bonaldo." |
| BASE COUNT | 116 a 164 c 148 g 115 t . |
| ORIGIN | |
| Query Match | 19.1%; Score 536.6; DB 148; Length 543; |
| Best Local Similarity | 99.3%; Pred No.2.1e-111; |
| Matches 539; Conservative | 0; Mismatches 4; Indels 0; Gaps 0. |
| OY 2227 | ctgctgtcgtctgtctgtcacagtgctgtccatacatcctgtgtcctaacaatgcattc 2286 |
| Db 543 | ctgtgtctgtctgtctgttcctggacctgactgctgctcaccctgctgctcaaacatgctcanc 484 |
| OY 2287 | gccctcatgaagcgagaacogtcaacagltgtcgccaactgacagtgtgaacatctgtgaagctg 2346 |
| Db 483 | gccctcatgaagcgagacacctcaacagtgctggccactgacagctggagcattctggaaagctg 424 |
| OY 2347 | cagaagaacatctgtcctctgtagagttgagaatgtgctattgttgtgtgagaagaagacag 2406 |
| Db 423 | cagaaaggccattctgtctcttgagagtgagaaatggcttatgtgtgtgacgaaagacag 364 |
| OY 2407 | caggcagtgatgatctgaacgtctgacataagccagatgagcagcccgatatgagcgttg 2466 |
| Db 363 | cgggcagtgatgatctgtgacacctgctgacattaaGCCAGATGGCAGCCGGATGAGGGCTGG 304 |
| OY 2467 | tgtctcaaggtgaggaaggtgaactgtggtctcatatggagagcagaacgtctgctcactgtgt 2526 |
| Db 303 | tgccttcagaggtgaggaaggtgaactgtggtctcatatggagacacacccctgctcactgtgt 244 |
| OY 2527 | gagagcccgctgaaggagcaggtgtctcctgnaactctcgagaacccctgtctctgctccct 2586 |
| Db 243 | GAGGACCCGTCAAGGGGCAAGTGTCCTCTGAATTCTTCGAAACCCTGTCTGGCTTCCTCT 184 |
| OY 2587 | cccagaagagatgagatgtgtgctcttgagaanaaactatgtgcccgtccagctctccag 2646 |
| Db 183 | CCCAGAAGAGATGAGAGATGTGTCCTCTGAGAAAATAATGATGTCGCCGTCCAGCTCCTCAG 124 |
| OY 2647 | tccaactgatgtcccaagtatgcagcaggggccccagagggcagaagcagagatctttccaac 2706 |
| Db 123 | tccaactgatgtcccaagtatgcagcaggggccccagagggcagaagcagagatctttccaac 64 |

ORIGIN

Query Match 18.6%; Score 522.8; DB 117; Length 527;
Best Local Similarity 99.4%; Pred. No. 2.8e-108;
Matches 524; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 399 gacattgatgagagcaagaatgctctgagcgagacagaagaagctgatttgg 458
|||||
DB 527 GACATATGATGAGAGCCAGAAAGATGCTCGAGCGGACAGAGAAAGCTGATTTGG 468
QY 459 gaggggctgctccctcctgagttacagttccagggcgagaccggaattccgctca 518
|||||
DB 467 GAGGGGCTGCTCCCTCCATGAGTACAGTTCCAGGGGAGAGCCGGAATTCGCCCTCA 408
QY 519 gataagatcaactcaactccgaagaaggagagctgcccagtcagccgagatccaaacg 578
|||||
DB 407 GATAAGAGTCAACTCAACTCAACGAAAGGAGAGAGTCCAGTACCGGATCCAAACCG 348
QY 579 attgaccgagatcgctctcctcaatgagttcccgagggtgtcccgagagatctgtctg 638
|||||
DB 347 ATTGACCGAGATGCGCTCTTCATGCGGTCTCCCGGGGTCTCCCGAGATCTGGCTGG 288
QY 639 acttccagatgactgagcaagaaccagaaagtaactcagcagtcggaatacagaagg 698
|||||
DB 287 ACTTCCAGAGTACCTGAGCAAGACCAACCACTACCCAGCTCGGATACACAGAGGG 228
QY 699 ctccacagtgaaagactgctctgagatgaaagctgtgtaaccttaagacaggaagcaatgc 758
|||||
DB 227 CTCACACAGTAAAGCTGCTCGATGAAAGCTGTCTGTAACCTTTAAGAGCGGGTCAATGC 168
QY 759 ctgactctgcaactgtctgacatcgacaagagactctgacatccctcaagccctgtgtaa 818
|||||
DB 167 CTGATCTGCTGCACTGCTGAGATCGACCGGGACTCTGGCAATCCTCAGCCCTGGTAA 108
QY 819 tggccatgtgcacaaatgactattaccgaagccacaagcgctctgacatcgccattgaa 878
|||||
DB 107 TGCCCAATGACACATATACATTAACGAGGCGACAGCGCTTCGACATCGCATTTGAGAA 48
QY 879 gaagagctgcaagtgtgtgaagctccctgtgtgagaatgagggcaatg 925
|||||
DB 47 GAGAGTCTGCAAGTGTGTGAAGCTCTGTGTGAGATGGGCGCAATG 1

RESULT 14
BE670695/c 536 bp mRNA EST 08-SEP-2000
LOCUS 738H05.x1 NCL:CGAP_Lu24 Homo sapiens CDNA clone IMAGE:3284793 3'
DEFINITION similar to TR:035433 035433 VANILLOID RECEPTOR SUBTYPE 1.; mRNA
sequence.
ACCESSION BE670695
VERSION BE670695.1 GI:10031236
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE 1 (bases 1 to 536)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaps-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL, send email to:
InfoImage.lnl.gov
Seq primer: -400P from Gibco

High quality sequence stop: 438.
Location/Qualifiers

FEATURES

source

1..536

/organism="Homo sapiens"

/db_xref="taxon:9606"

/clone="IMAGE:3284793"

/clone_id="NCL:CGAP_Lu24"

/tissue_type="carcinoid"

/lab_host="DH10B"

/note="Organ: lung; Vector: pT73D-Pac (Pharmacia) with a
modified polylinker; Plasmid DNA from the normalized
library NCI-CGAP_Lu5 was prepared, and ss circles were
made in vitro. Following HAP purification, this DNA was
used as tracer in a subtractive hybridization reaction.
The driver was PCR-amplified cDNAs from a pool of 5,000
clones made from the same library (clonids
141920-1417991 and 1520904-1522439). Subtraction by Bento
Soares and M. Fatima Bonaldo."

BASE COUNT

111 a 161 c 143 g 121 t

ORIGIN

Query Match 18.6%; Score 522.2; DB 138; Length 536;
Best Local Similarity 98.5%; Pred. No. 3.9e-108;
Matches 527; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 2237 tgcgtgctacgtgtgtctcaccatccctgcgtgcacacatgctcagcctcatga 2296
|||||
DB 535 TGCTGGCATAGCTGCTCTGTCATACATCCGACTGCTCAACATGCTCATGCCCTCATGA 476
QY 2297 gcgagacgctcaacagtgctgcacatgacagctgagagcatctggaagctgcagaagcca 2356
|||||
DB 475 GCGAGCCCGTACCAGTACGCTGCCACTGACAGCTGAGACATCTGGAAGCTGCAGAAACCA 416
QY 2357 tctctgtccctgagaaatgagaaatgctattgtgtgtcagaagaagcagcggtcagtg 2416
|||||
DB 415 TCTATGTCCTGAGATGAGATGAGATGCTATGCTGTGTCAGGAAACACAGCGGCGACGTG 356
QY 2417 tgatgtcgaacgtgtgtgacactaagcagatggaacccggaagcagcgtgtgtcaggg 2476
|||||
DB 355 TGATGCTGACCGTGTGGCAGTAAAGCAATGAGCAGCCGGAAGAGCGCTGTTCAGGG 296
QY 2477 tggagaggtgaactgtgctcattgagagcagacgctgtcagcgtgtgtgagagacct 2536
|||||
DB 295 TGATGAGAGTGAACCTGAGCTTCATGAGGAGCAGACGCTGCTGATGAGAGACCCGT 236
QY 2537 caggggcaaggtgtctccctcgaactctgagaacccctgtgtcgtctccctcccaagagg 2596
|||||
DB 235 CAGGGGAGGTGCTCCCTGCAACCTCTGCAAGACCTGTCTGCTGCTCCCTCCCAAGAGG 176
QY 2597 atgagagatgtgtcctcgaagaacatactgtccgctcgaactcctccagtcacagat 2656
|||||
DB 175 ATGAGAGTGTGCTCTGAGAGAAATATGTGCCCTGTCACAGCTCTCCAGCAACTGAT 116
QY 2657 ggcacagatgcagcagagagccagagagacagagagagatcttccaacacatctgt 2716
|||||
DB 115 GGCCACAGATGACGACGAGGAGGACAGAGACAGAGAGAGATCTTCCAAACACATCTGCT 56
QY 2717 ggccttggggccagagatctgtgtggaataataatttttactcaactcaaa 2771
|||||
DB 55 GGCCTGGGGTCCAGTGAATTCGTGTGGCAAAATATATTTTCACTACTCAAA 1

RESULT 15
BF436096/c 513 bp mRNA EST 30-MAR-2001
LOCUS BF436096
DEFINITION nab77a02.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens CDNA clone
IMAGE:3273507 3' similar to TR:09Y5S1 09Y5S1 VANILLOID
RECEPTOR-LIKE PROTEIN 1.; contains Alu repetitive element.; mRNA
sequence.
ACCESSION BF436096
VERSION BF436096.1 GI:11448411
KEYWORDS EST.

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